Micro e Macro trend di sicurezza in Italia e nel mondo

Alessandro Livrea
Vice President Akamai Technologies

Akamai Platform

A GLOBAL PLATFORM

365,000+ servers
1,500+ networks
130+ countries
4,200+ locations
250+ Tbps of peak

2023

Akamai's threat researchers analyze
454 TB
of new attack data
everyday

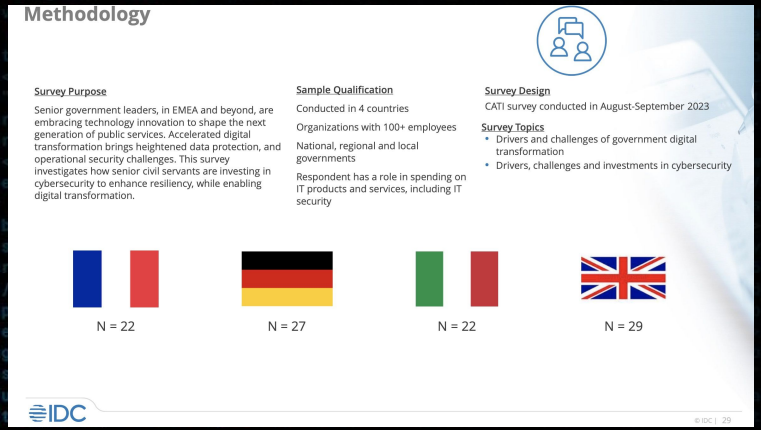
ITALY

7,000+ servers
15+ networks
60+ locations
6+ Tbps of peak
11+ Tbps of capacity

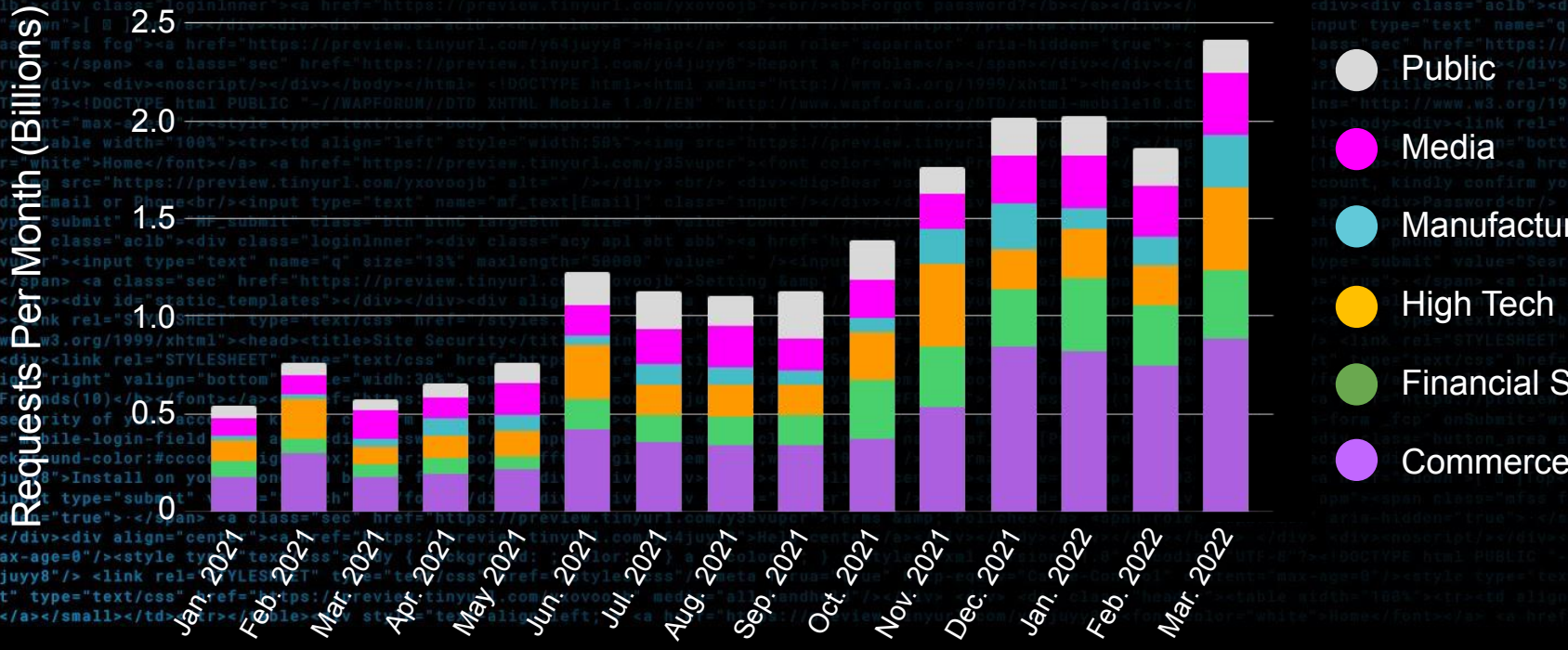
Akamai Visibility in 2023

223 Billion
Web application and API attacks

>18 Trillion
Malicious bot requests

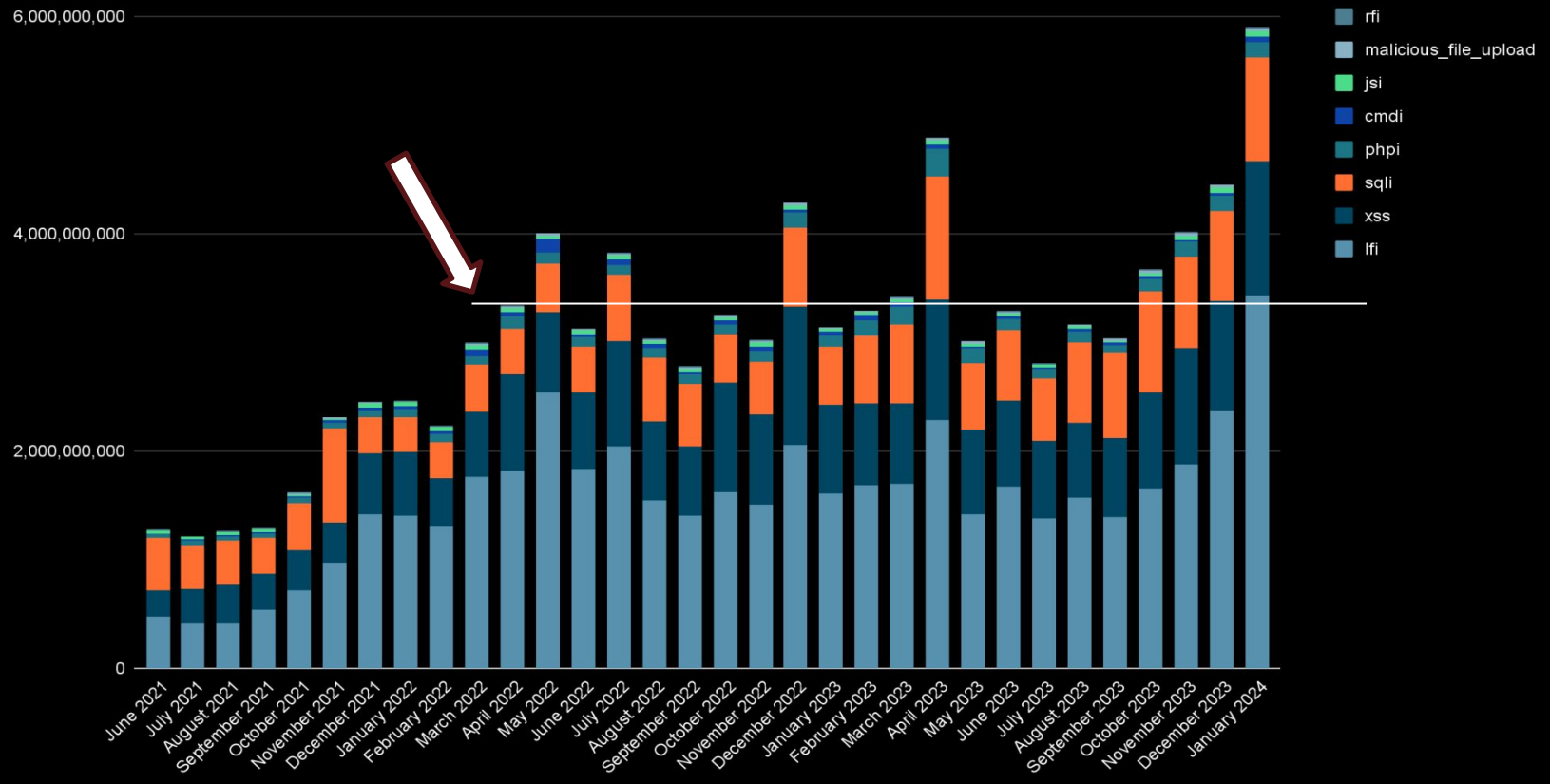


Global Application and API Attack Traffic



Source: Akamai data

Application Attacks June 21 - January 24



Web App and API Attacks

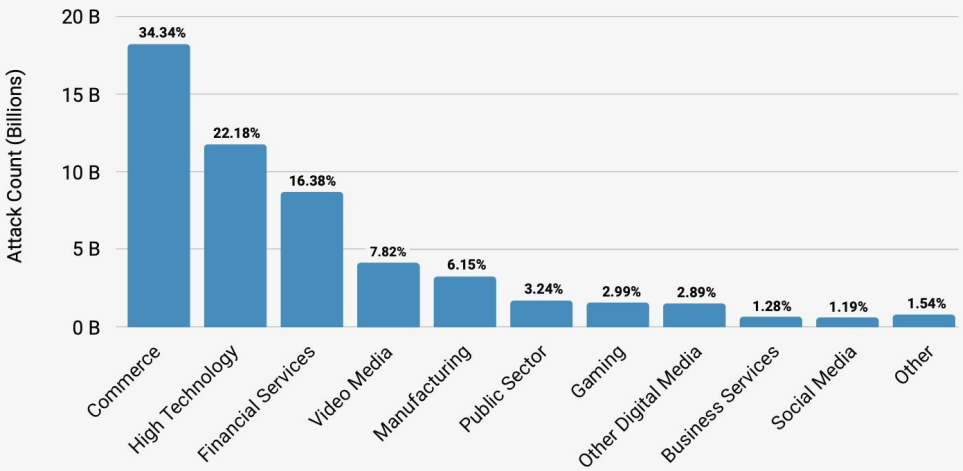


Fig. 1: Financial services remains in the third spot in web application and API attacks during the reporting period because of the industry's continued digitalization and the alarming rate in which adversaries are exploiting web application vulnerabilities in attacks

Web App and API Attacks

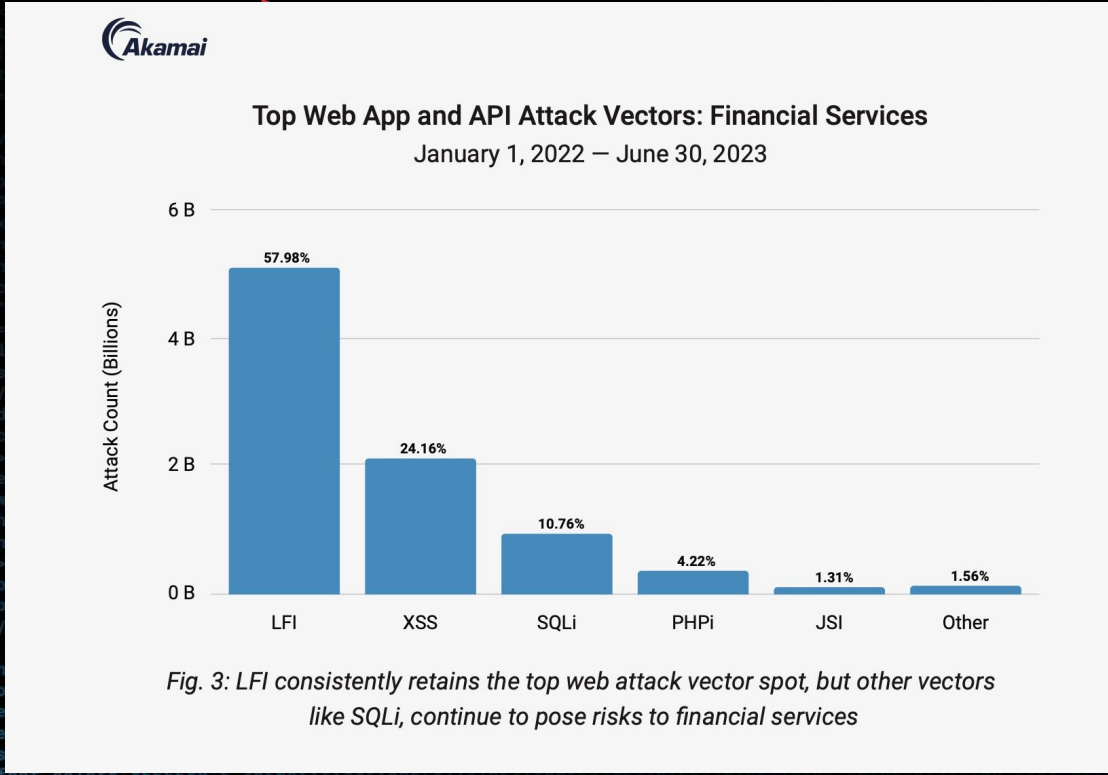
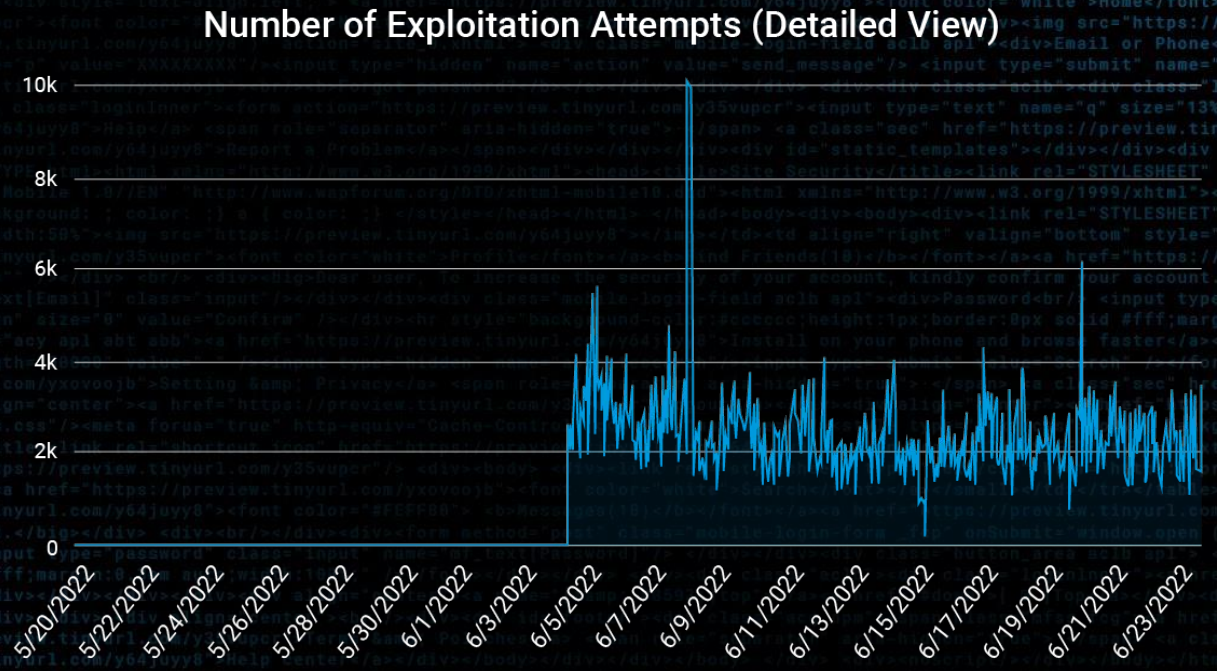


Fig. 3: LFI consistently retains the top web attack vector spot, but other vectors like SQLi, continue to pose risks to financial services

The Perils of Emerging Vulnerabilities

Within 24 hrs after disclosure, exploitation of emerging vulnerabilities begins



*based on our Confluence vulnerability research

Web App and API Attacks

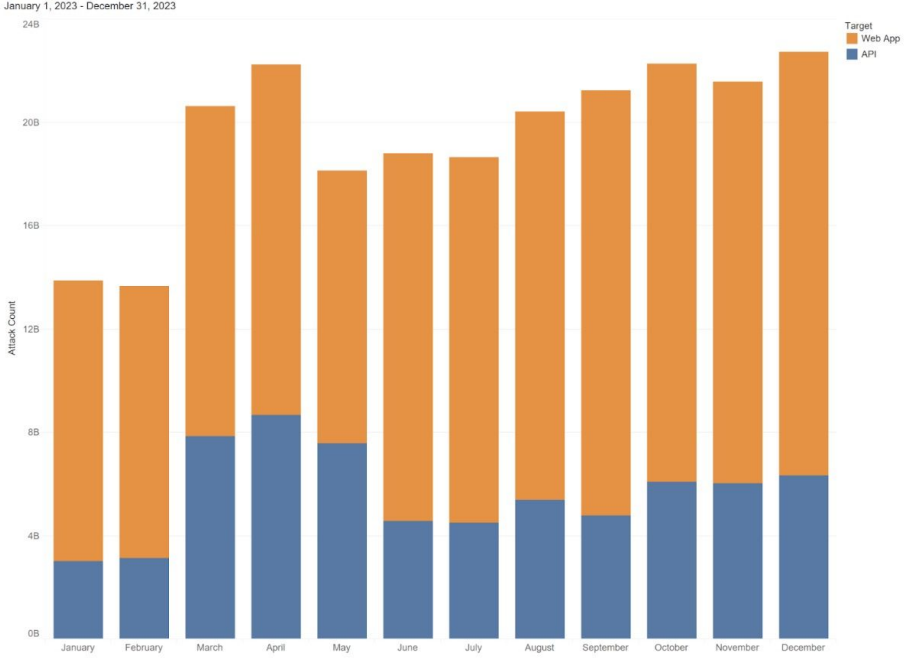
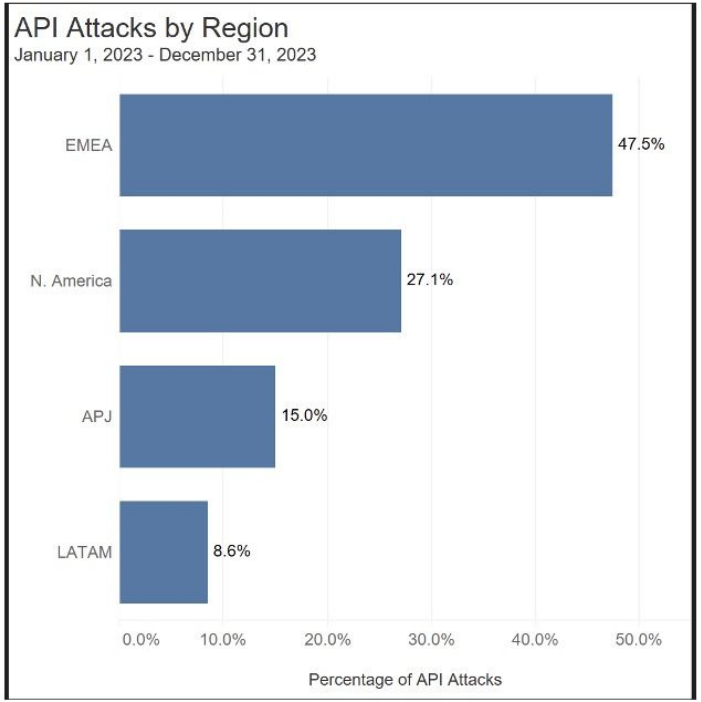


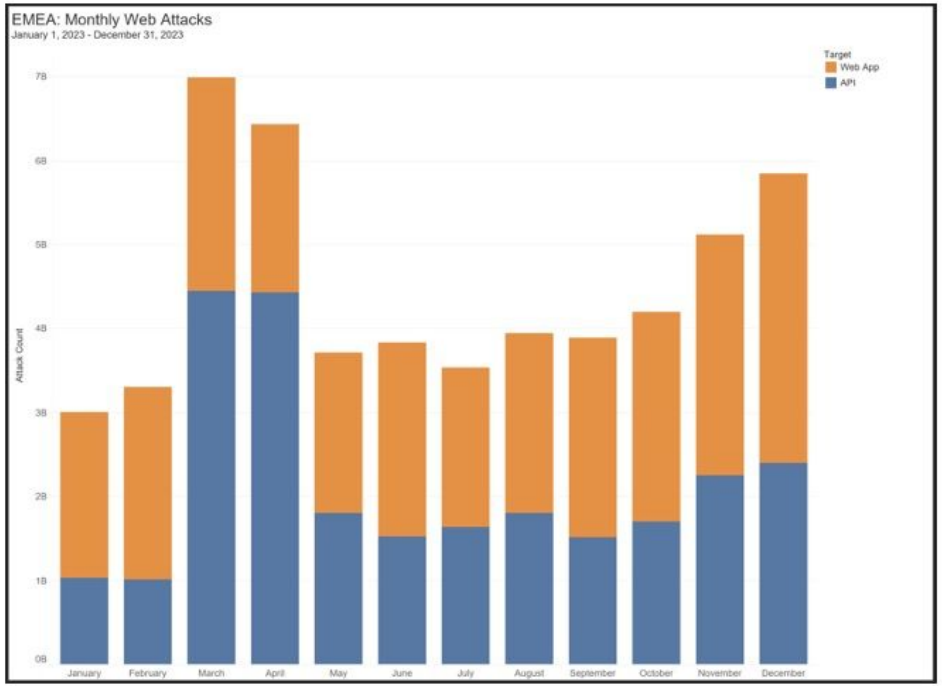
Fig. 1: Web attacks against APIs spiked from 22% in January to 28% in December, with several fluctuations between March and May 2023

API Attacks by region



EMEA Fig. 1: Web attacks are significantly more likely to target APIs in EMEA than in any other region

EMEA Web APP and API Attacks



EMEA Fig. 2: With the exception of March and April, when API attacks spiked, API attacks increased steadily during 2023, rising to 41% of all attacks by the end of the year

API Attacks by Vectors

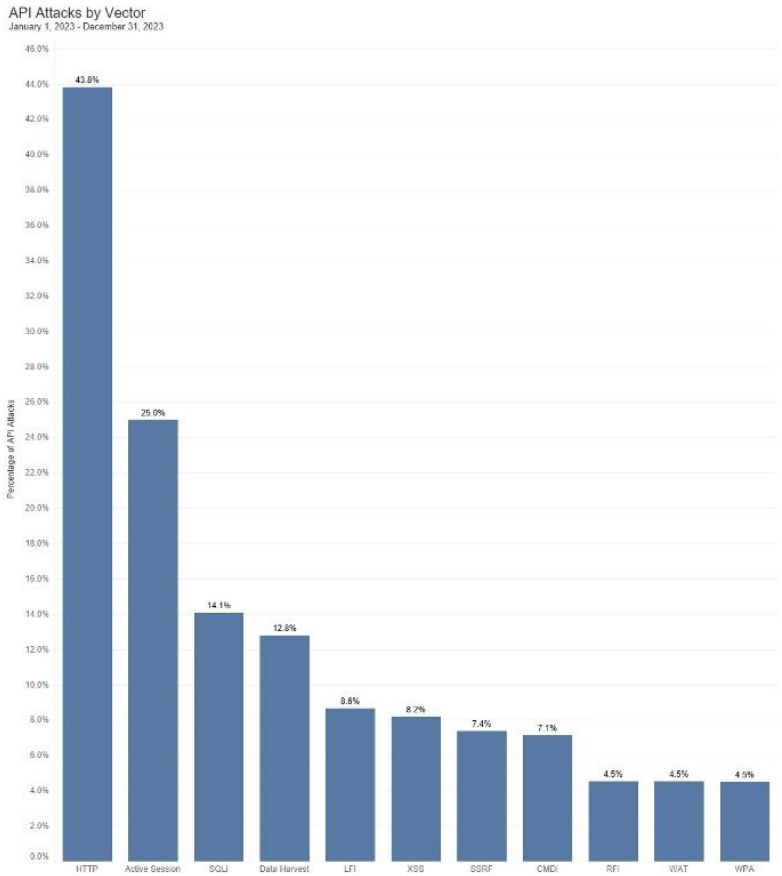


Fig. 2: Although Local File Inclusion (LFI) is not the top vector in APIs, it's still an area of concern as it can be used to infiltrate intended targets; a closer look at the distribution of attacks for both web applications and APIs, however, reveals LFI is still one of the top attack vectors

General Ransomware Killchain

Initial Foothold

(Spear)Phishing or vulnerable exposed applications

Lateral Movement

Spread across the network for maximum coverage

Exfiltration

Find and steal valuable data

Encryption

PKI with encryption to prevent cracking

Ransom Note

Wallpaper and ransom txt file

Profit

Ransomware

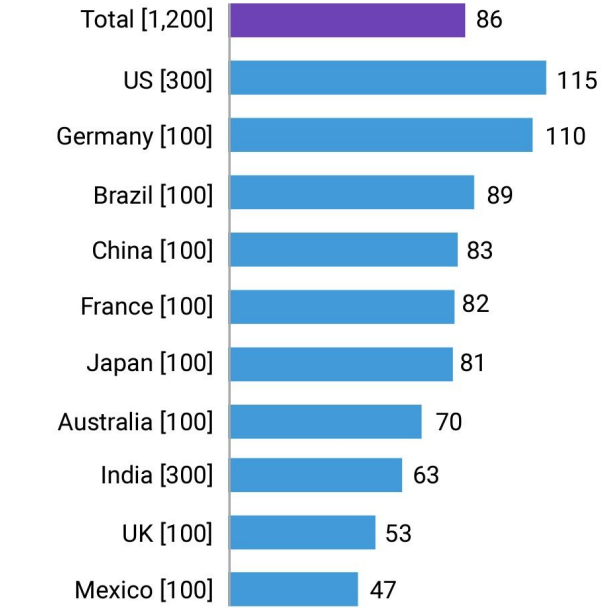


Fig.1: How many ransomware attacks has your organization been targeted with in the last 12 months (regardless of whether they were successful or not)? [1,200], only showing the average number

Ransomware

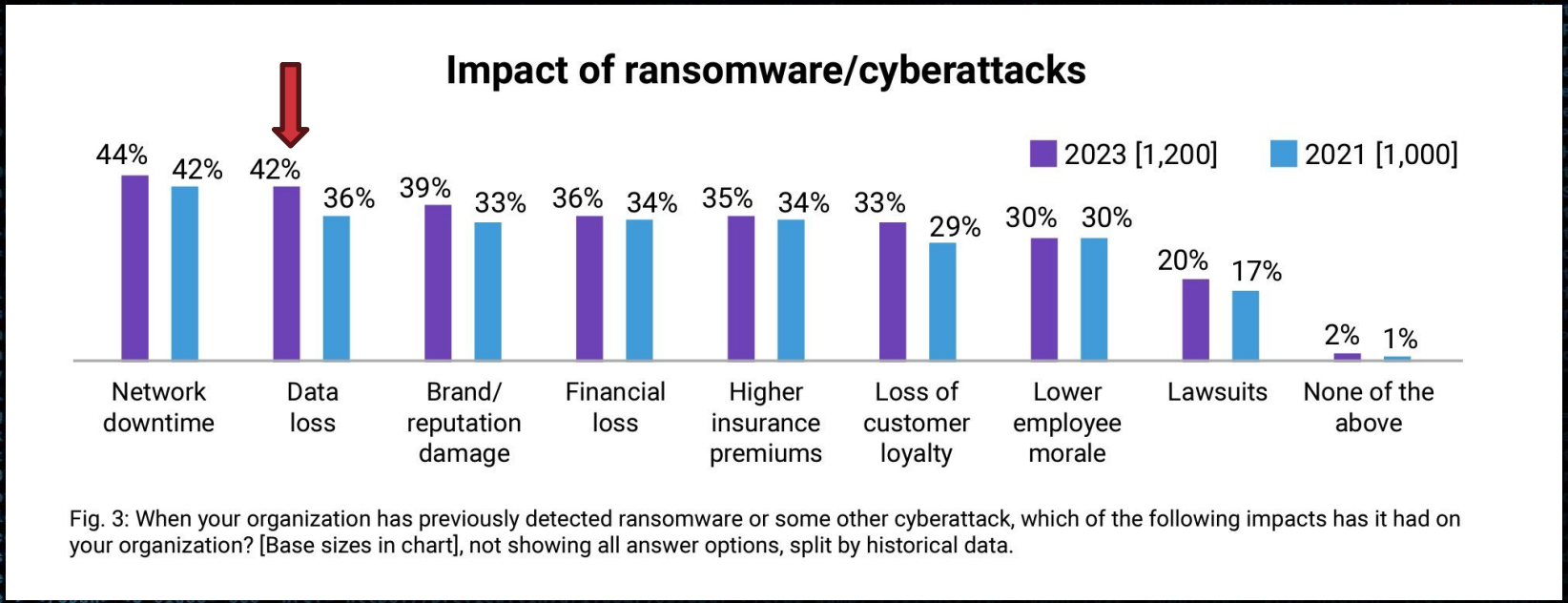
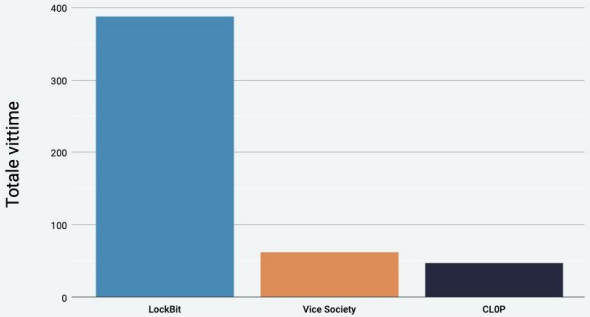
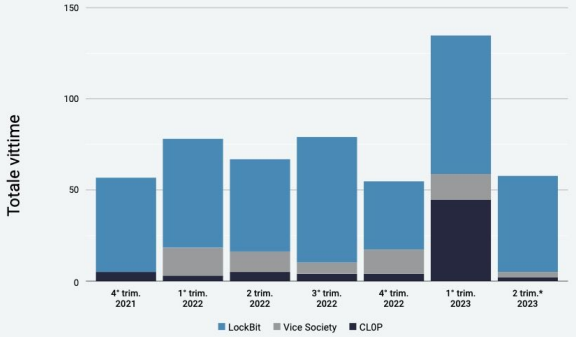


Fig. 3: When your organization has previously detected ransomware or some other cyberattack, which of the following impacts has it had on your organization? [Base sizes in chart], not showing all answer options, split by historical data.

Ransomware



EMEA - Figura 1. La maggior parte delle organizzazioni che hanno subito attacchi di ransomware nell'area EMEA è stata colpita dai gruppi LockBit, Vice Society e CL0P

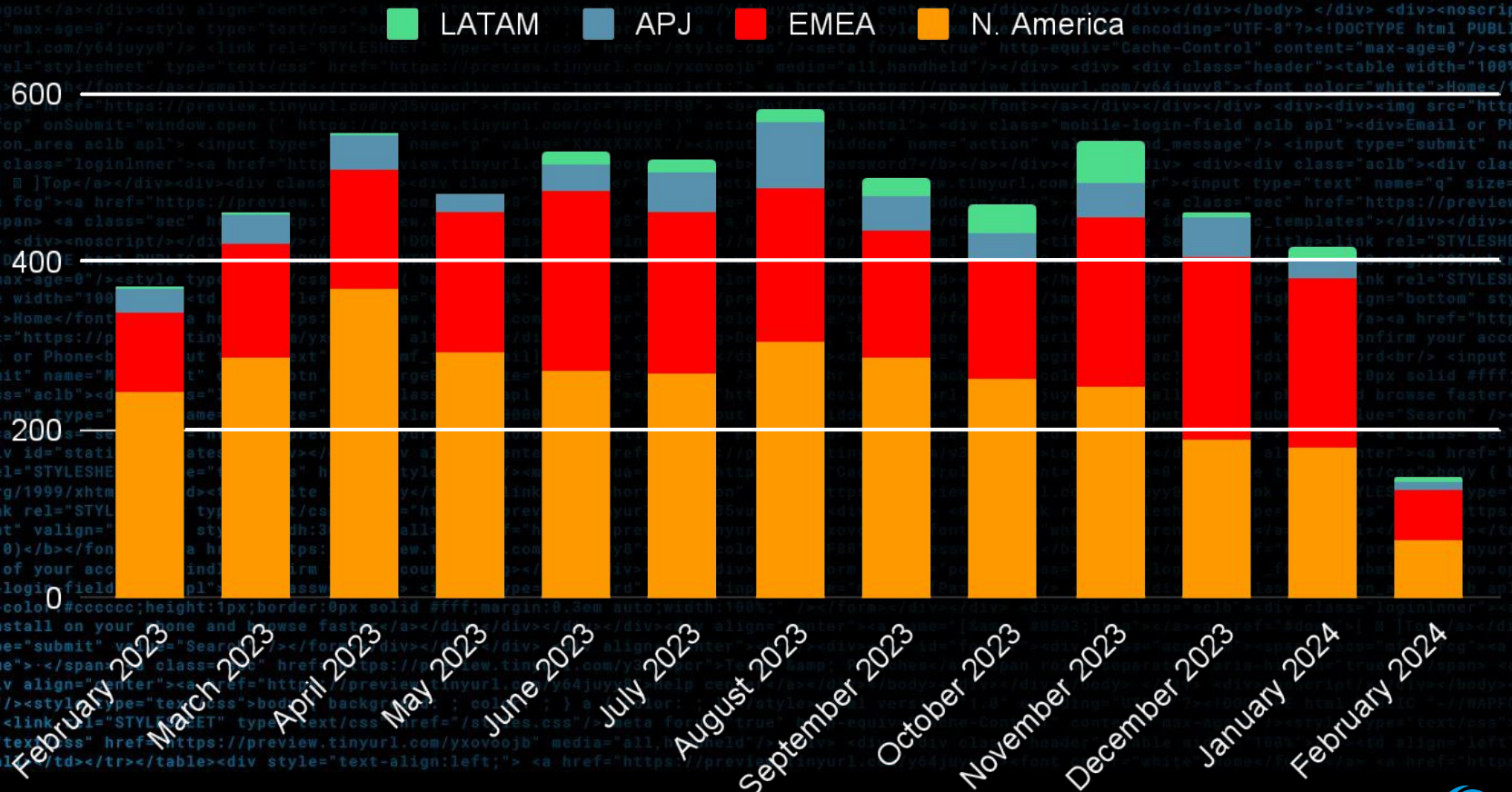


EMEA - Figura 2. Confronto trimestrale del numero di aziende vittime dei tre principali gruppi di ransomware nell'area EMEA: LockBit, Vice Society e CL0P

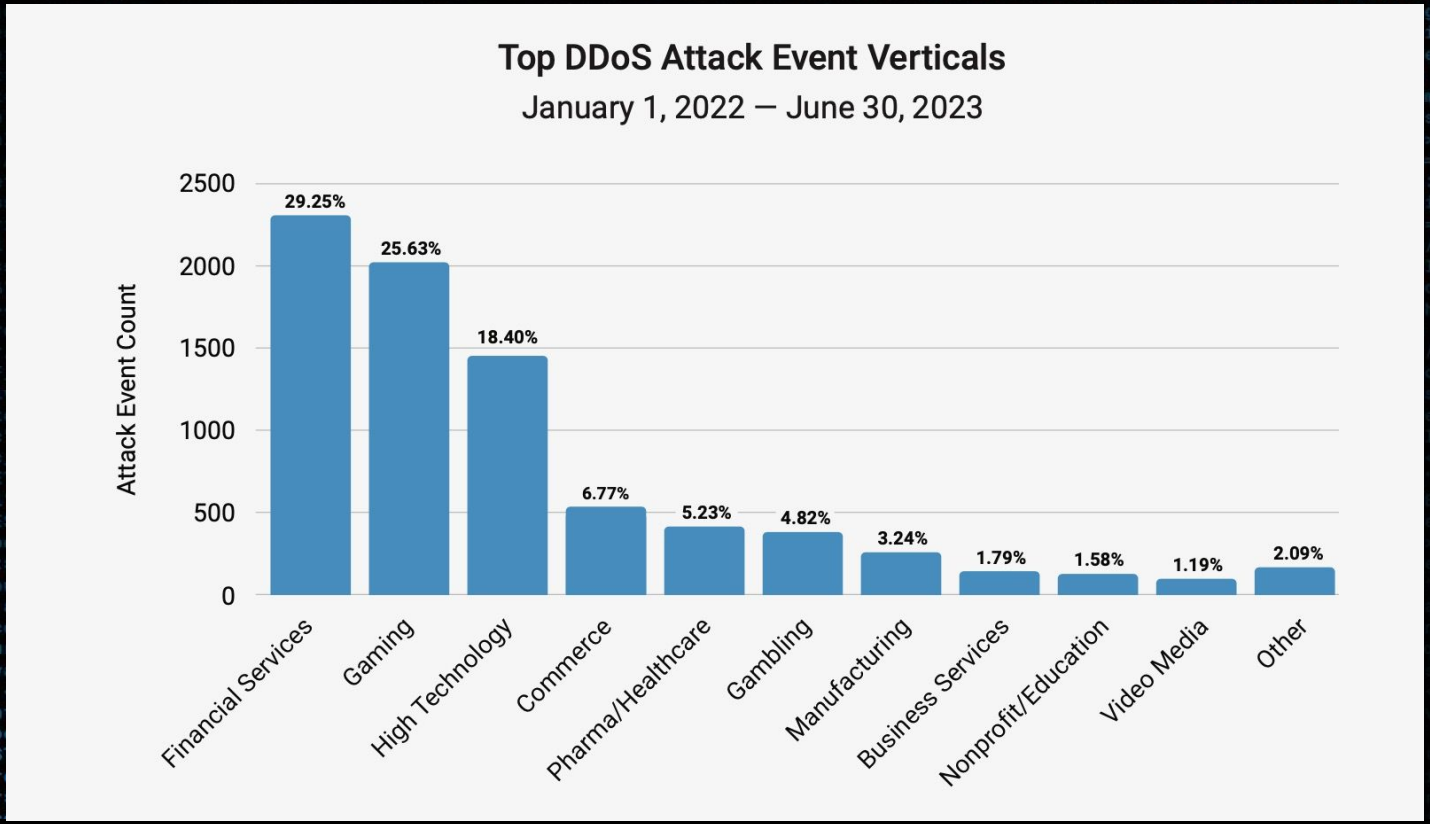
Ransomware

Fig. 2: The announcement of the systemic disruption of the largest and most prolific RaaS group and its affiliates

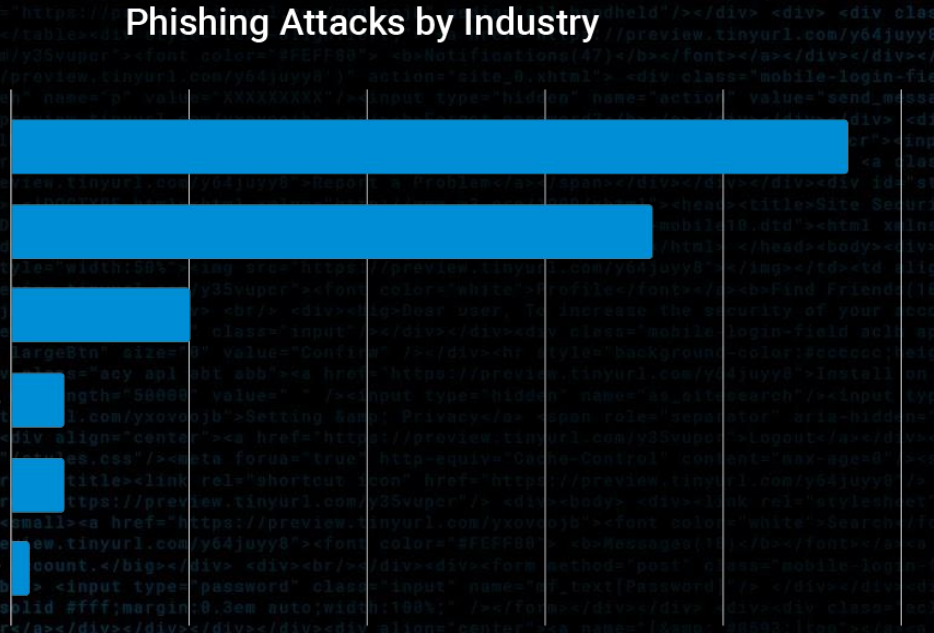
Global DDoS Attacks



Regional Data: DDoS Attacks



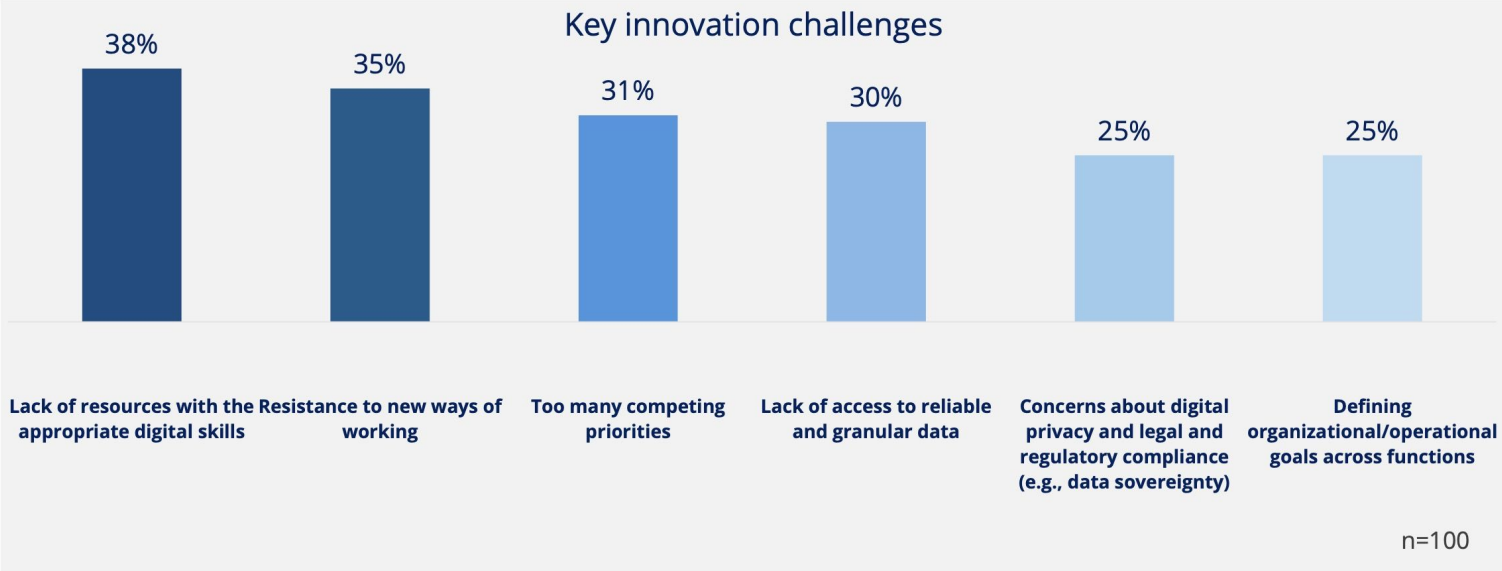
Phishing Trends



Ostacoli all’innovazione nella Pubblica Amministrazione

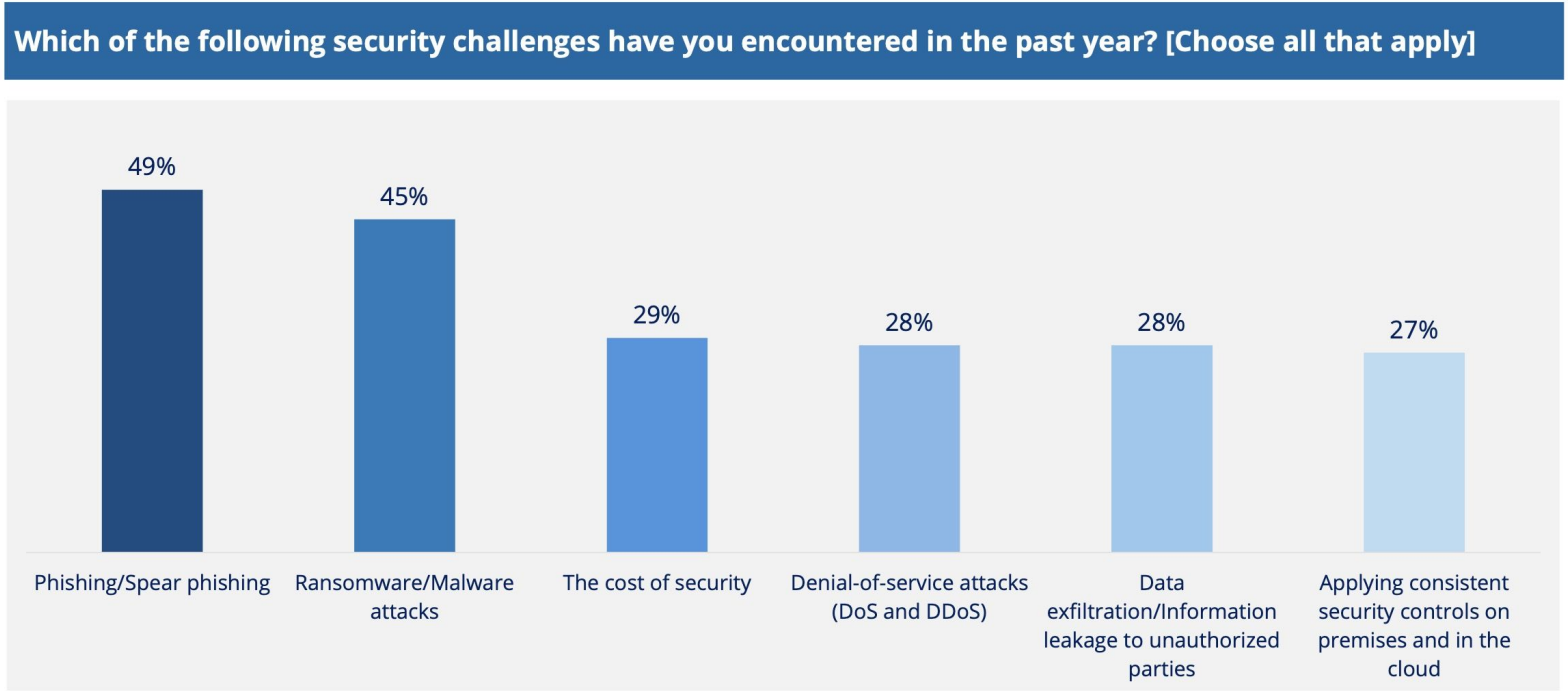
European senior government leaders understand that organizational challenges are the main obstacles to innovation

What are the main obstacles to your innovation plans?



Principali sfide di sicurezza

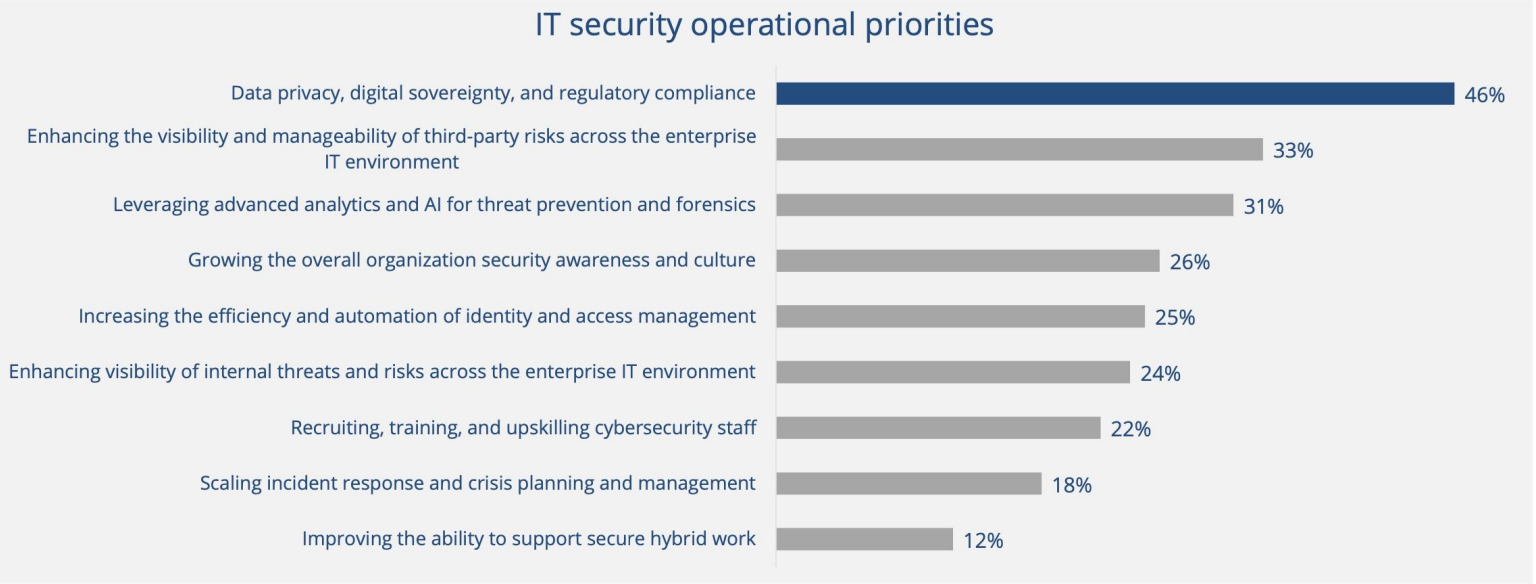
Phishing and ransomware are the most common security issues, faced by European governments



Priorità

The top IT security operational priorities for European government senior leaders is compliance with data privacy, digital sovereignty and other regulatory requirements

What are your IT security team's top operational priorities? [Choose up to 3]



Conclusions

Review your APP & API risks, as threat is focused on them

Prevent Lateral Movements

GRAZIE

Intelligent Security Starts at the Edge